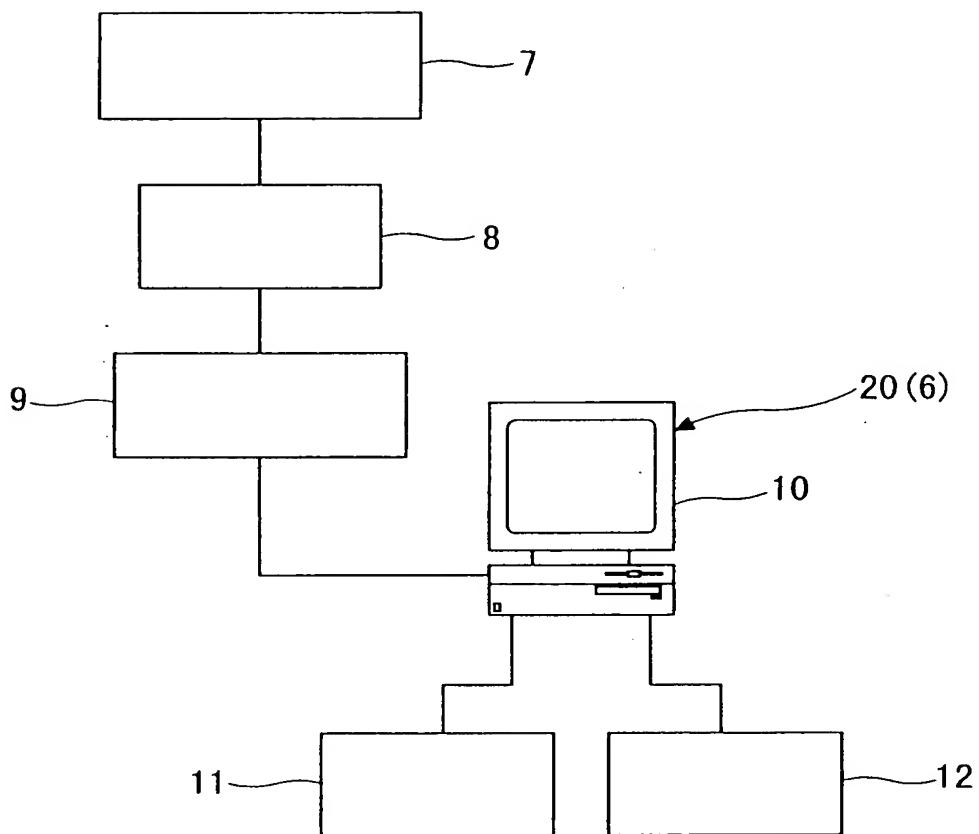
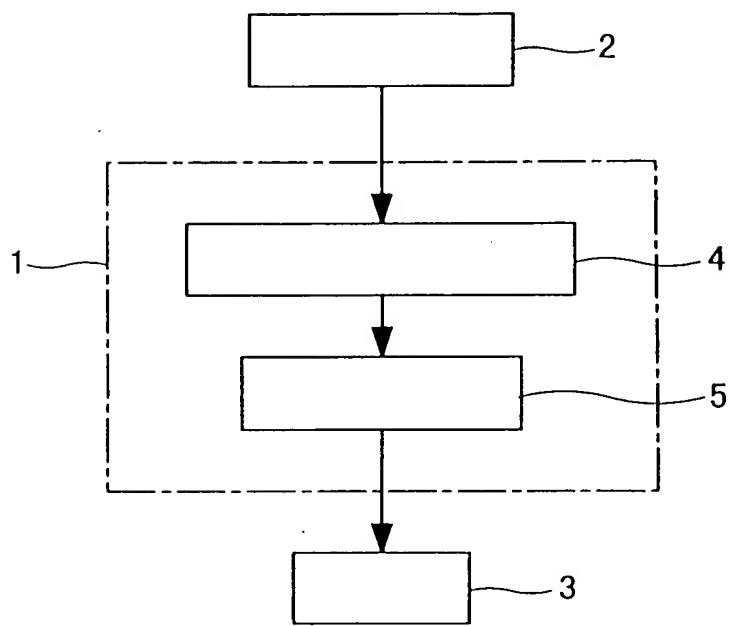


FIG. 1



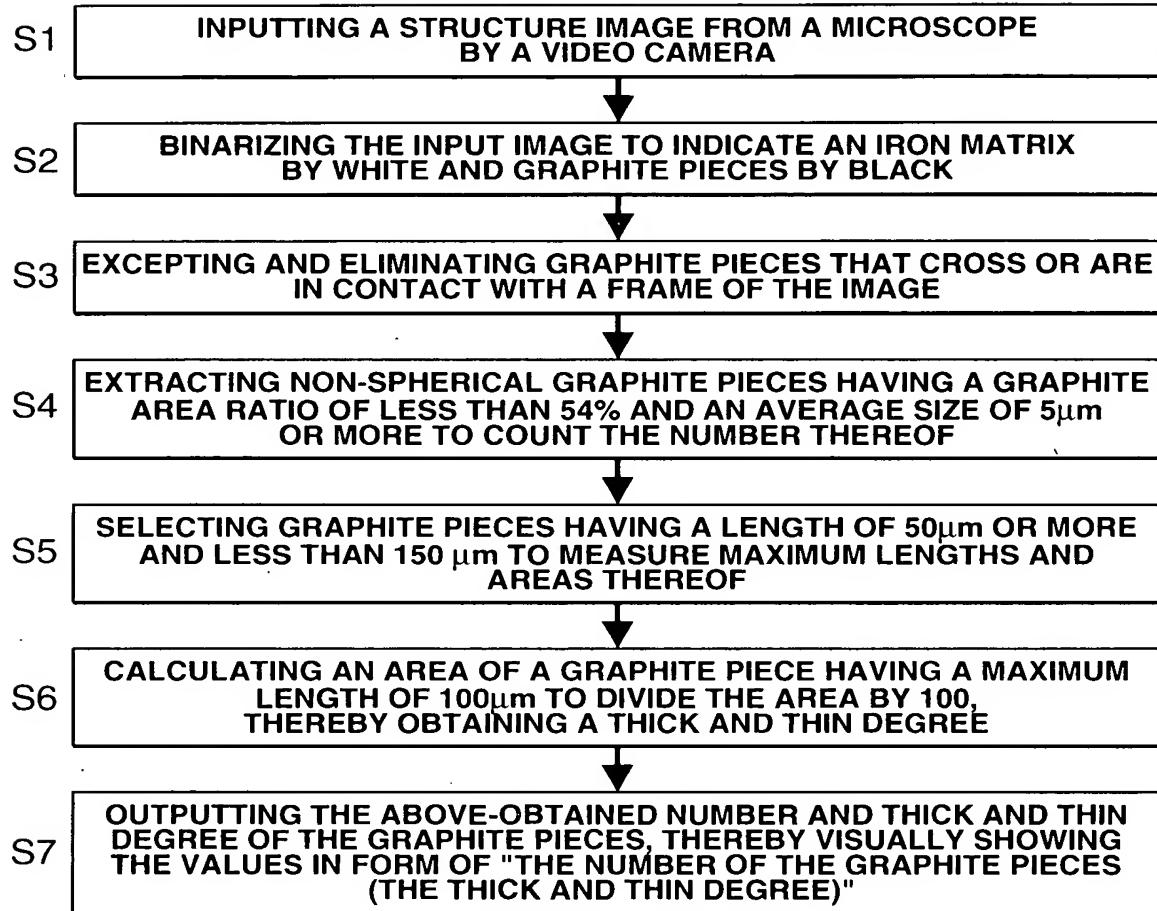
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FIG. 2



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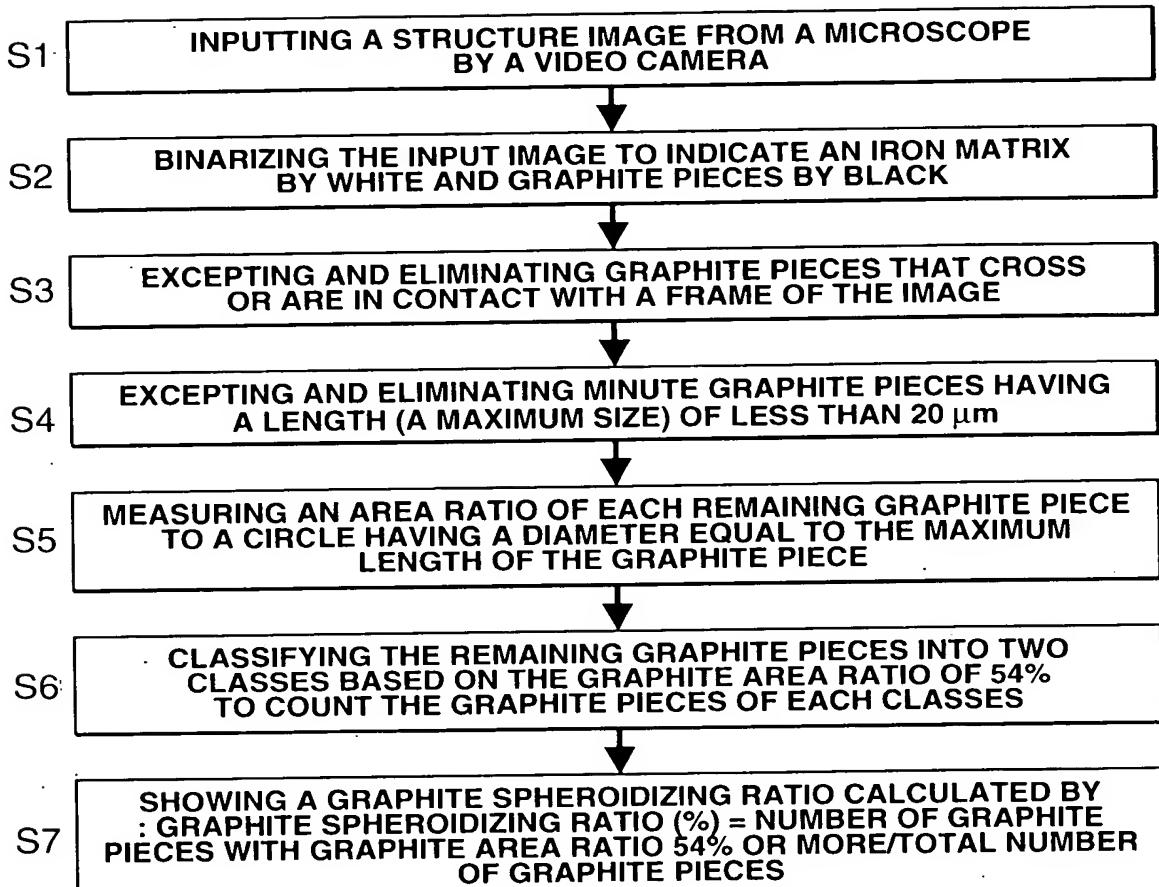
FIG. 3



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FIG. 4



STEPS OF IMAGE ANALYSIS FOR MEASURING GRAPHITE SPHEROIDIZING RATIO

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FIG. 5

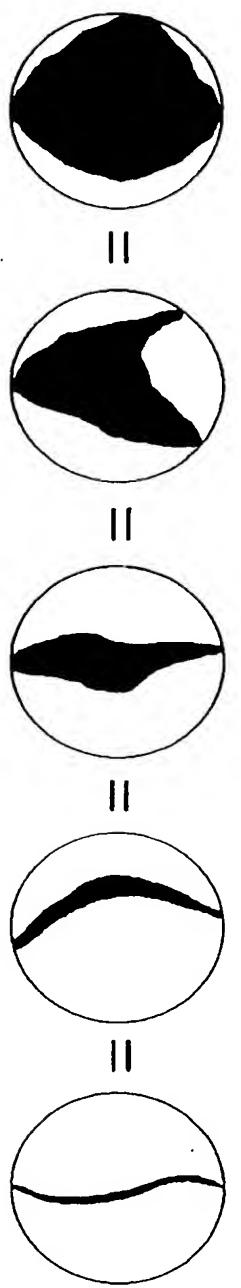
RECORD OF GRAPHITE SPHEROIDIZING RATIO MEASUREMENT				
MEASUREMENT DATE 2002/03/29 <FULL FIELD MEASUREMENT>				
GRAPHITE PIECES HAVING MAXIMUM SIZE OF 20 MICRONS OR LESS WERE EXCEPTED				
GRAPHITE STRUCTURE	STRUCTURES I TO IV	STRUCTURES V TO VI	GRAPHITE SPHEROIDIZING RATIO (%)	
COEFFICIENT	0	1.0		
MEASUREMENT FIELD	1	109	1	0.9
	2	112	0	0.9
	3	109	1	0.9
	4	*	*	*
	5	*	*	*
TOTAL FIELD		330	2	0.6

<STRUCTURE VIEW>

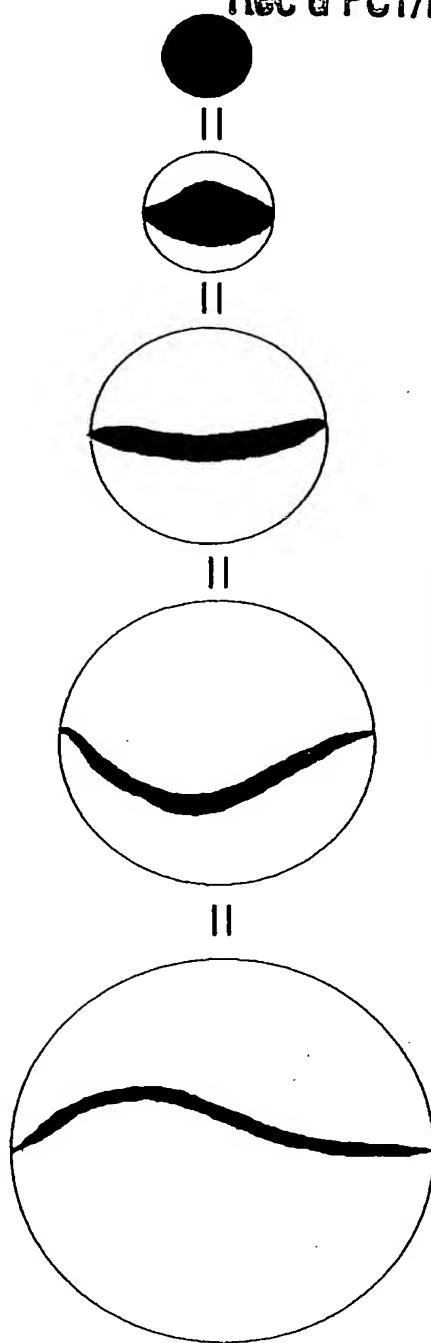


OUTPUT OF IMAGE ANALYSIS RESULT

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MAXIMUM SIZE



AVERAGE SIZE

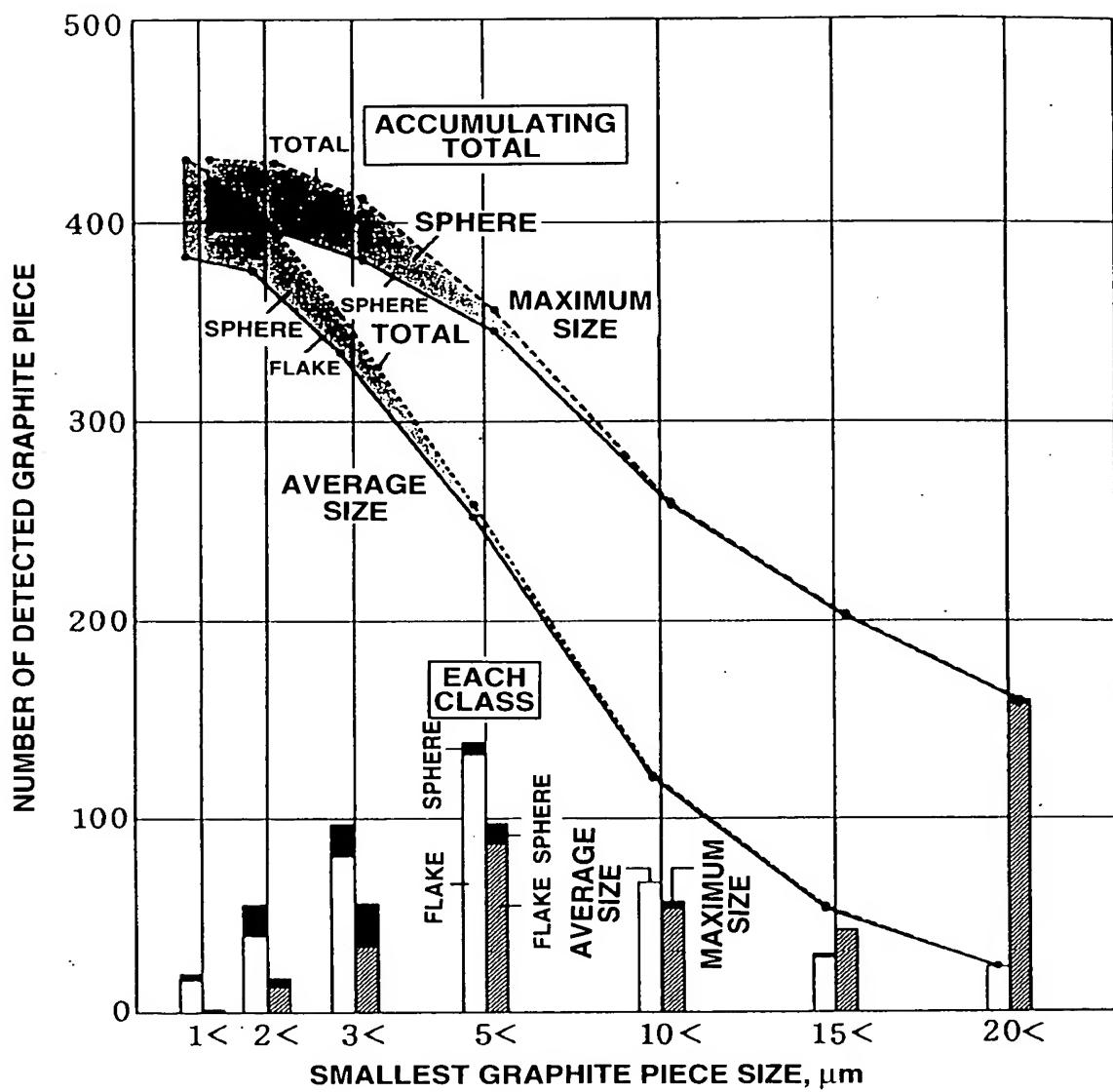
MAXIMUM SIZE AND AVERAGE SIZE FOR MEASURING GRAPHITE SIZE

FIG. 6A

FIG. 6B

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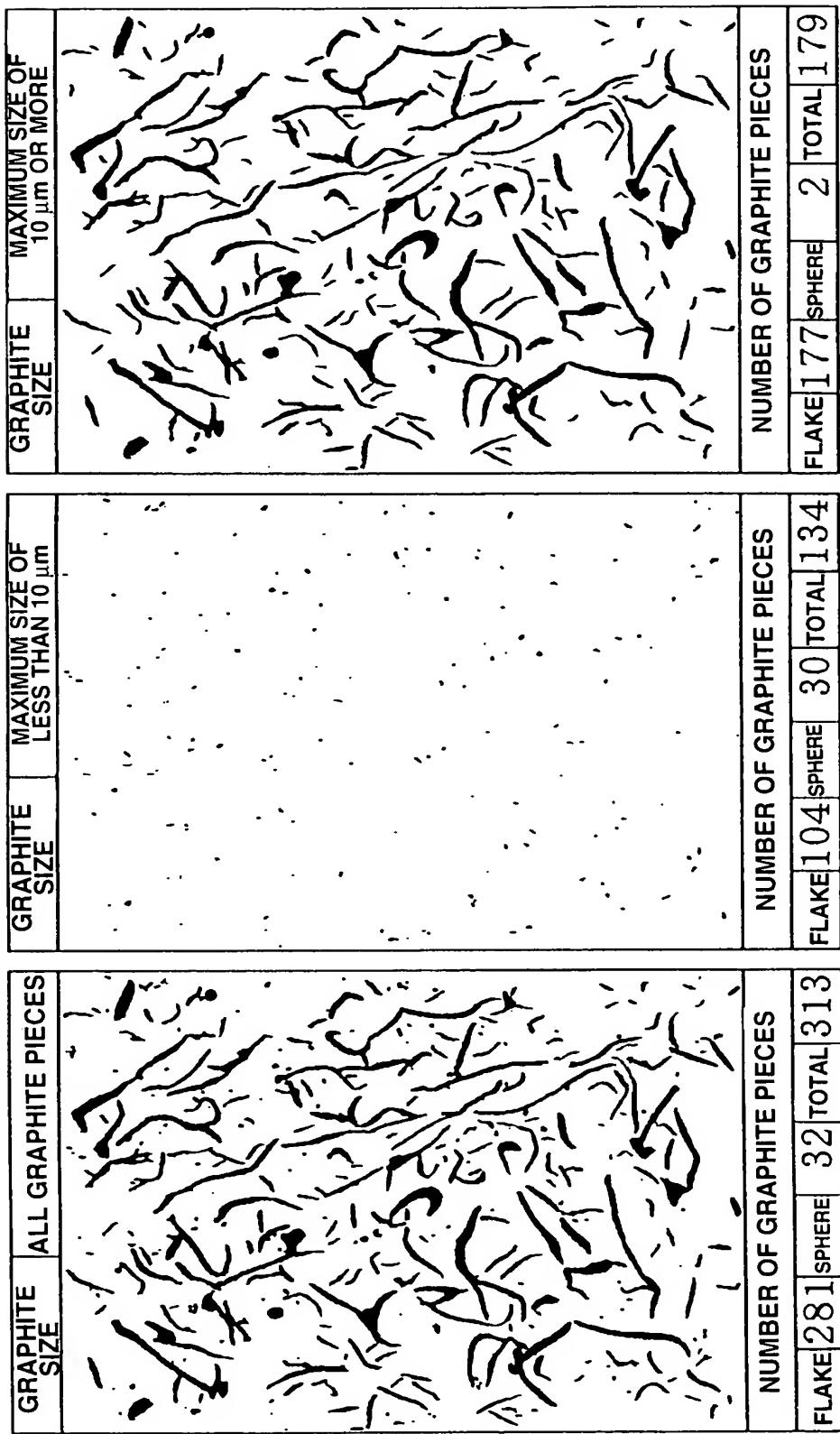
FIG. 7



NUMBERS OF DETECTED GRAPHITE PIECES
OF DIFFERENT SHAPES AND SIZES

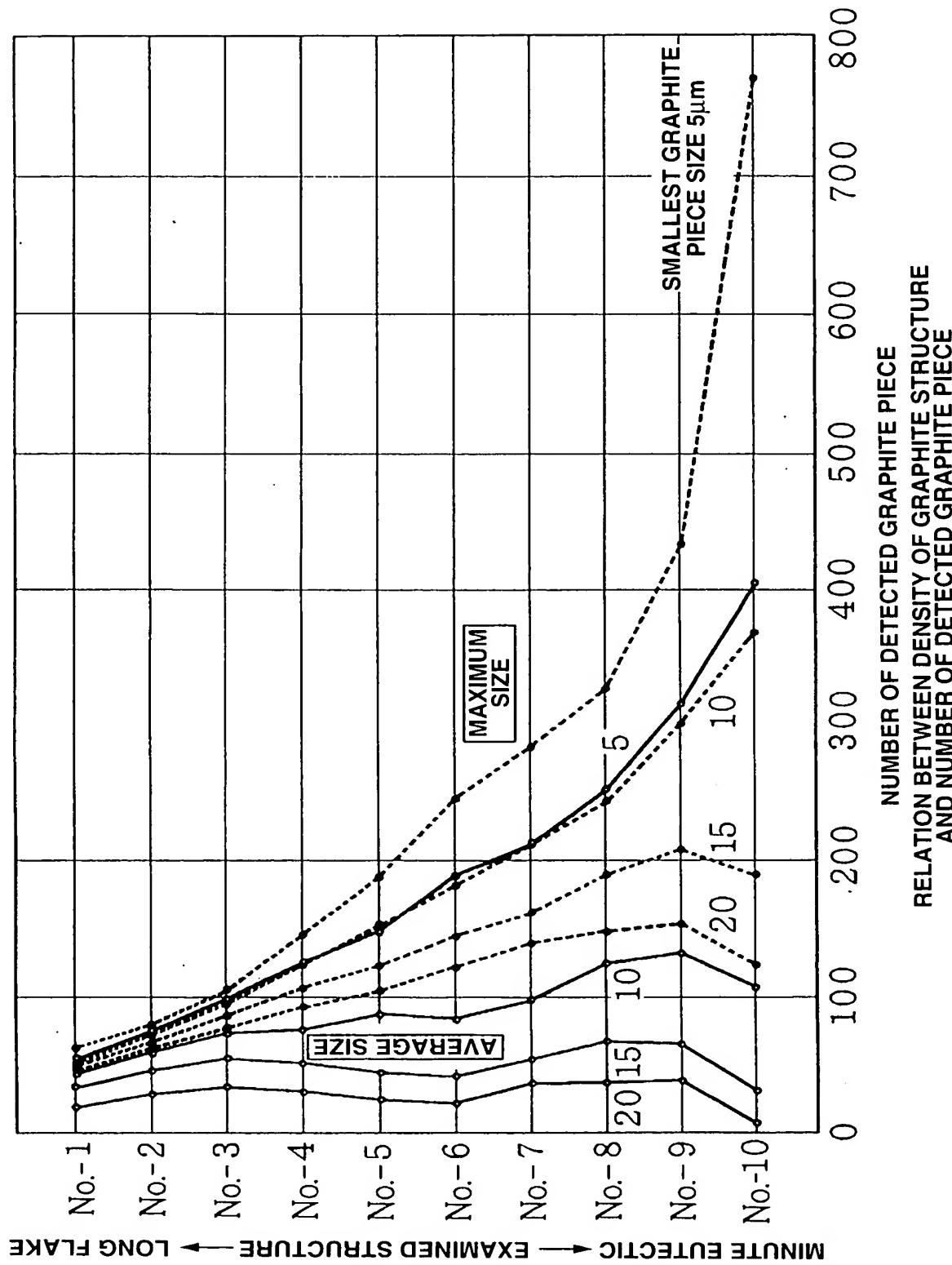
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FIG. 8



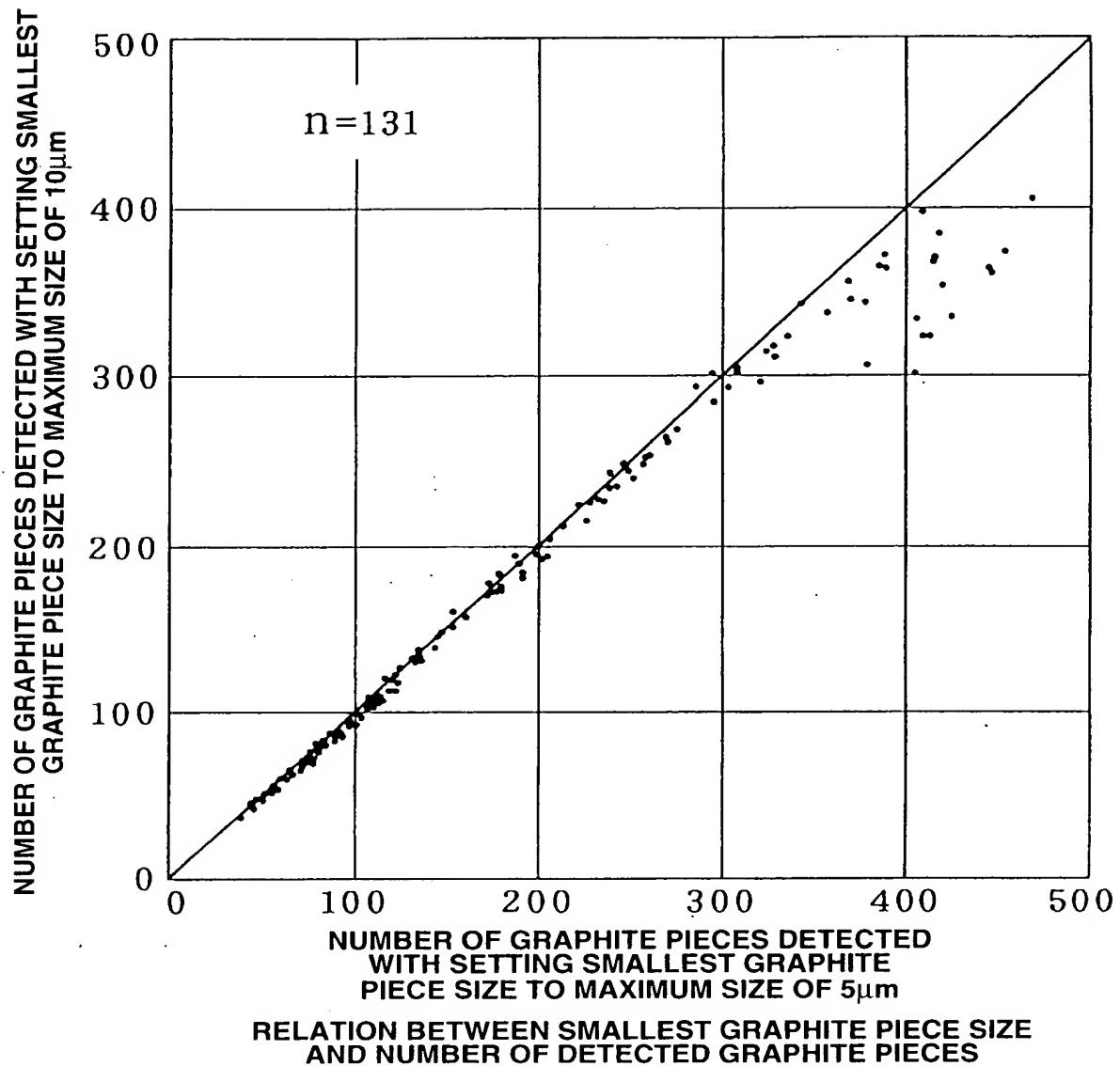
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FIG. 9



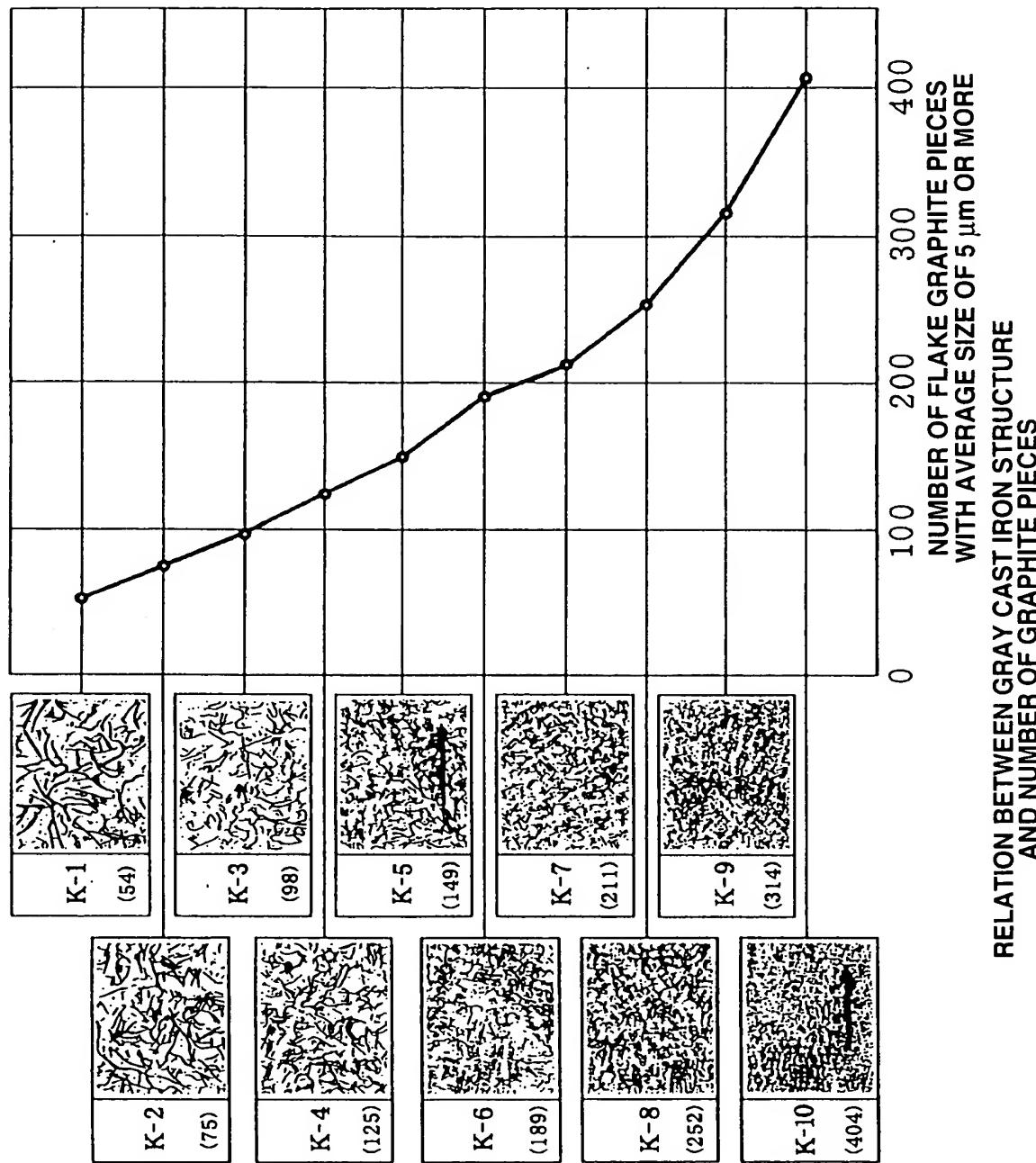
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FIG. 10



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FIG. 11



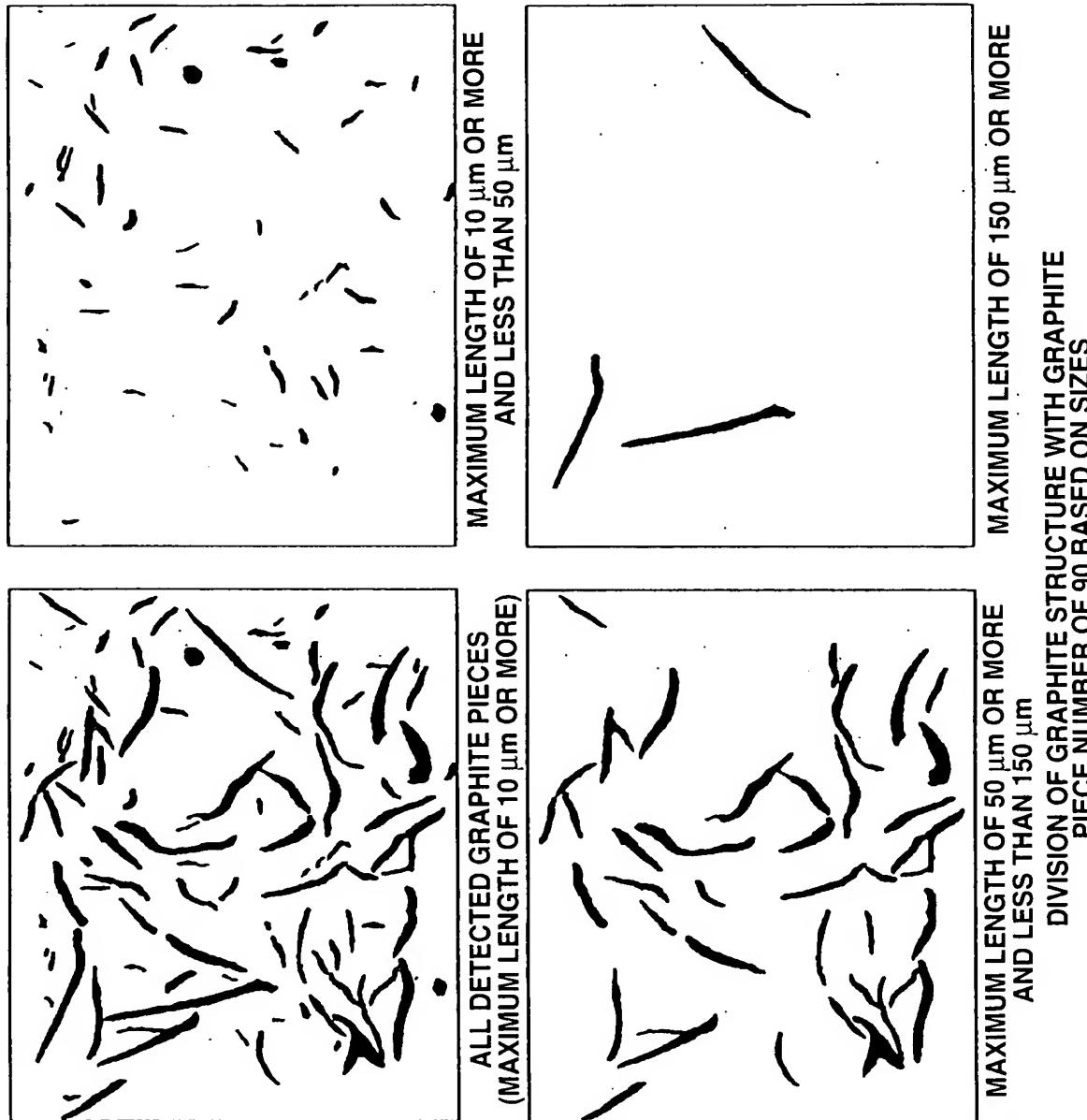
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FIG. 12



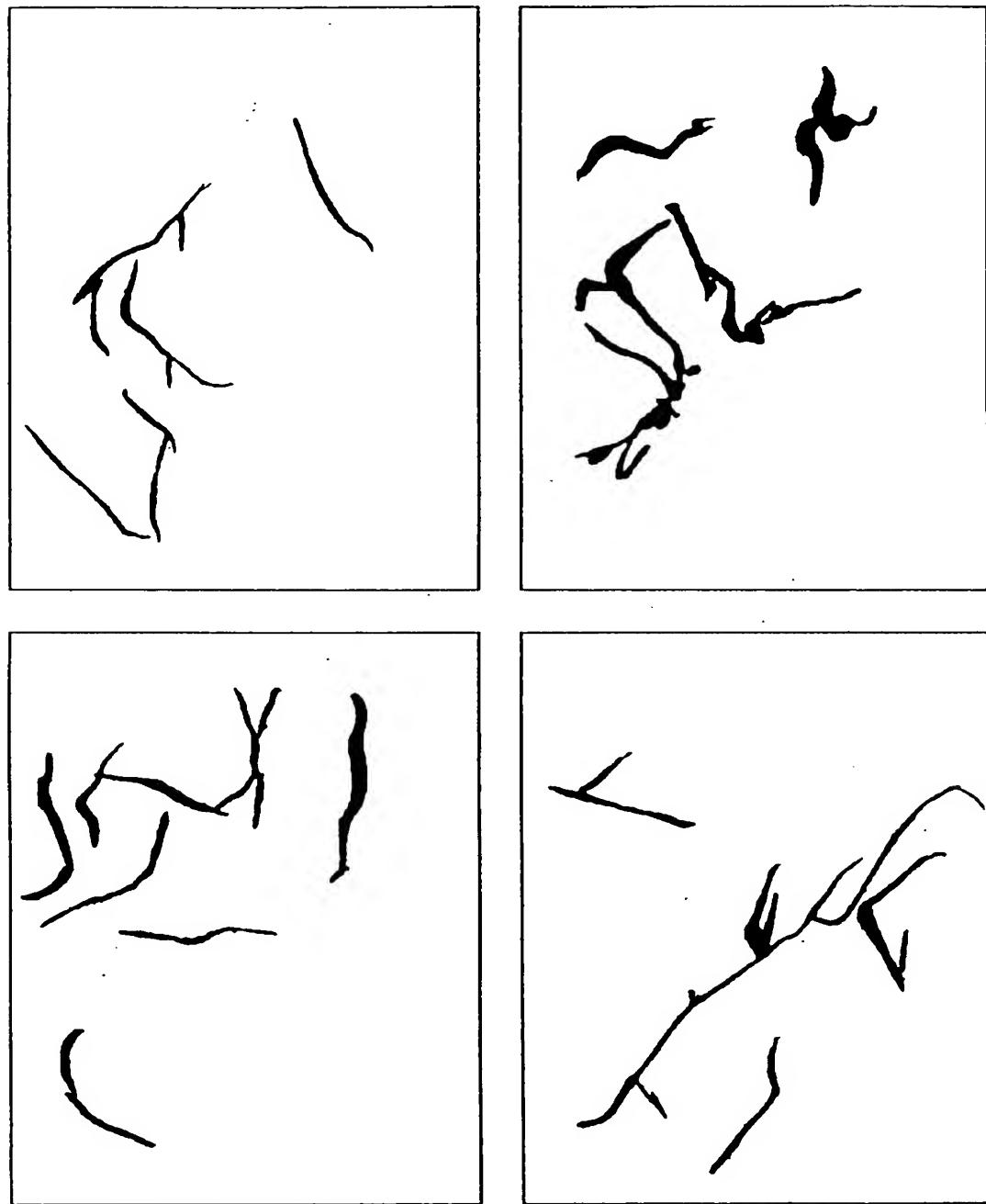
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FIG. 13



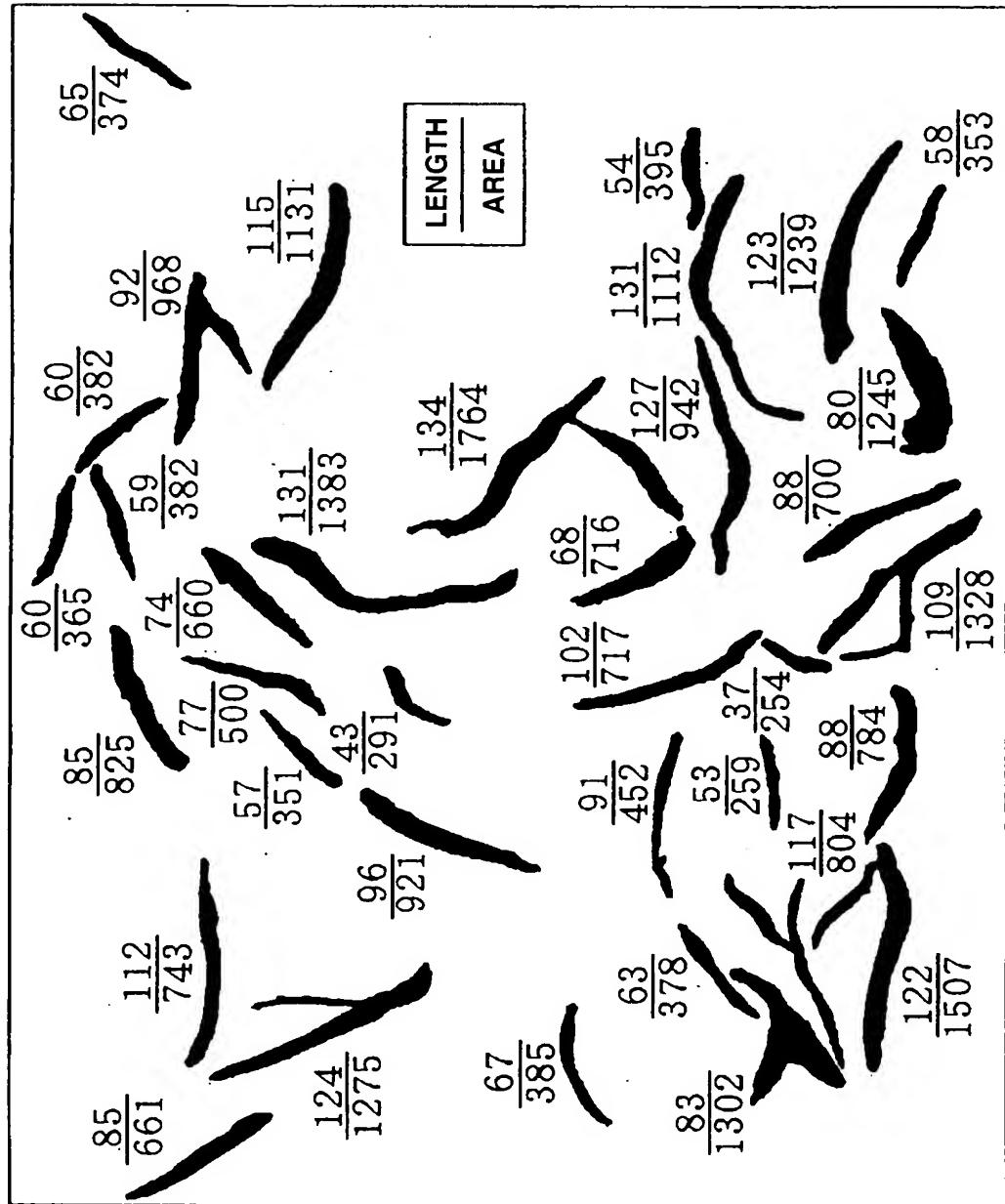
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FIG. 14



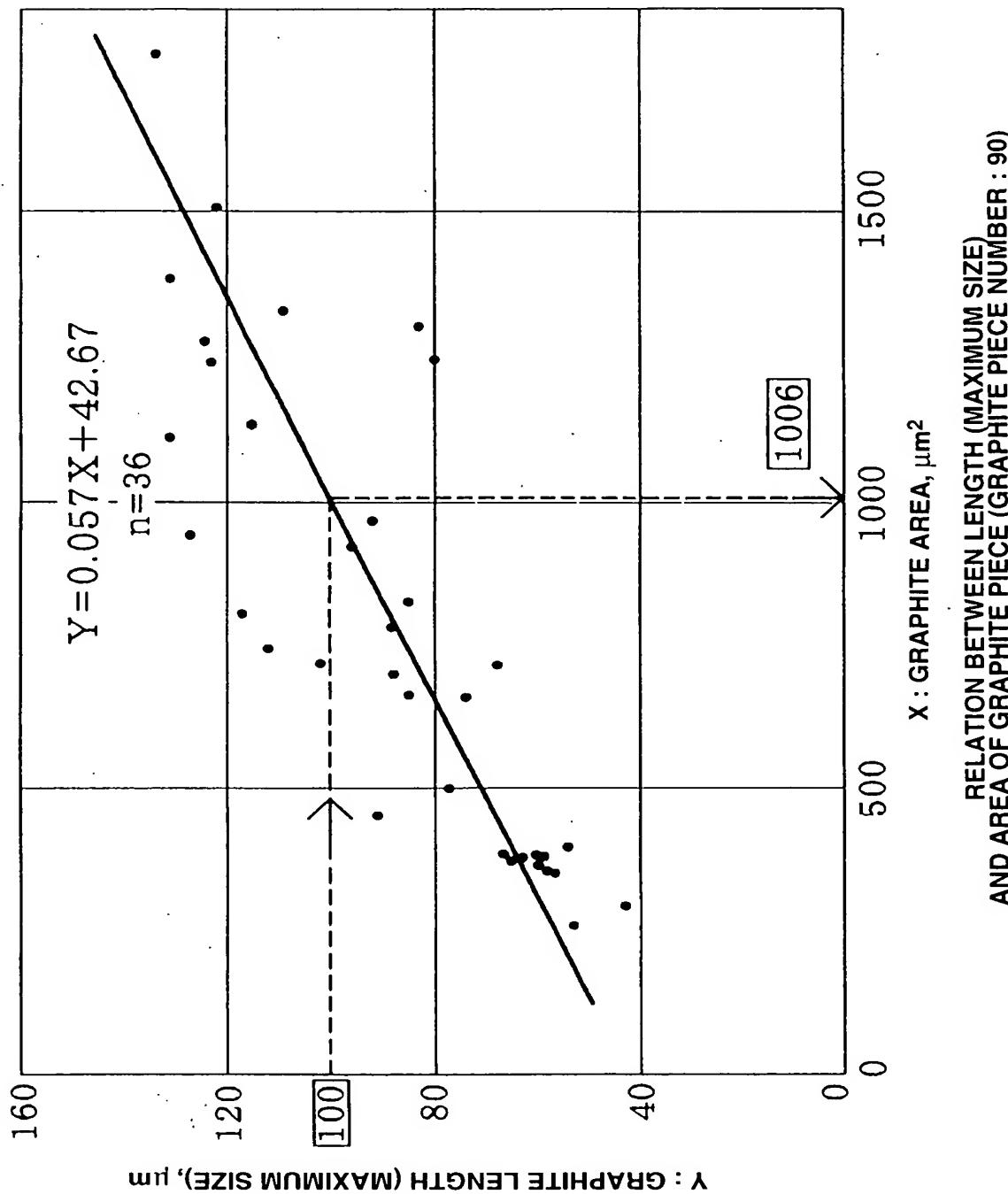
LINKAGE OF A PLURALITY OF GRAPHITE PIECES INCREASED AMONG
GRAPHITE PIECES WITH SIZE OF APPROXIMATELY $150 \mu\text{m}$ OR MORE

FIG. 15



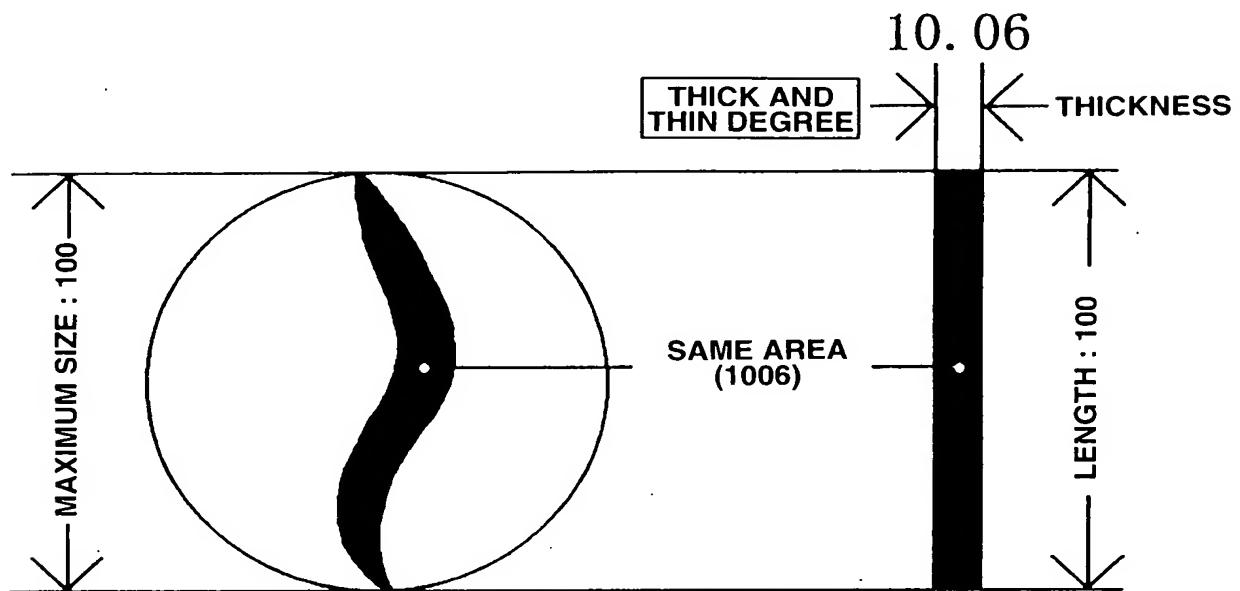
MEASUREMENT OF LENGTH AND AREA OF EACH GRAPHITE PIECE
IN GRAPHITE STRUCTURE WITH GRAPHITE PIECE NUMBER 90

FIG. 16



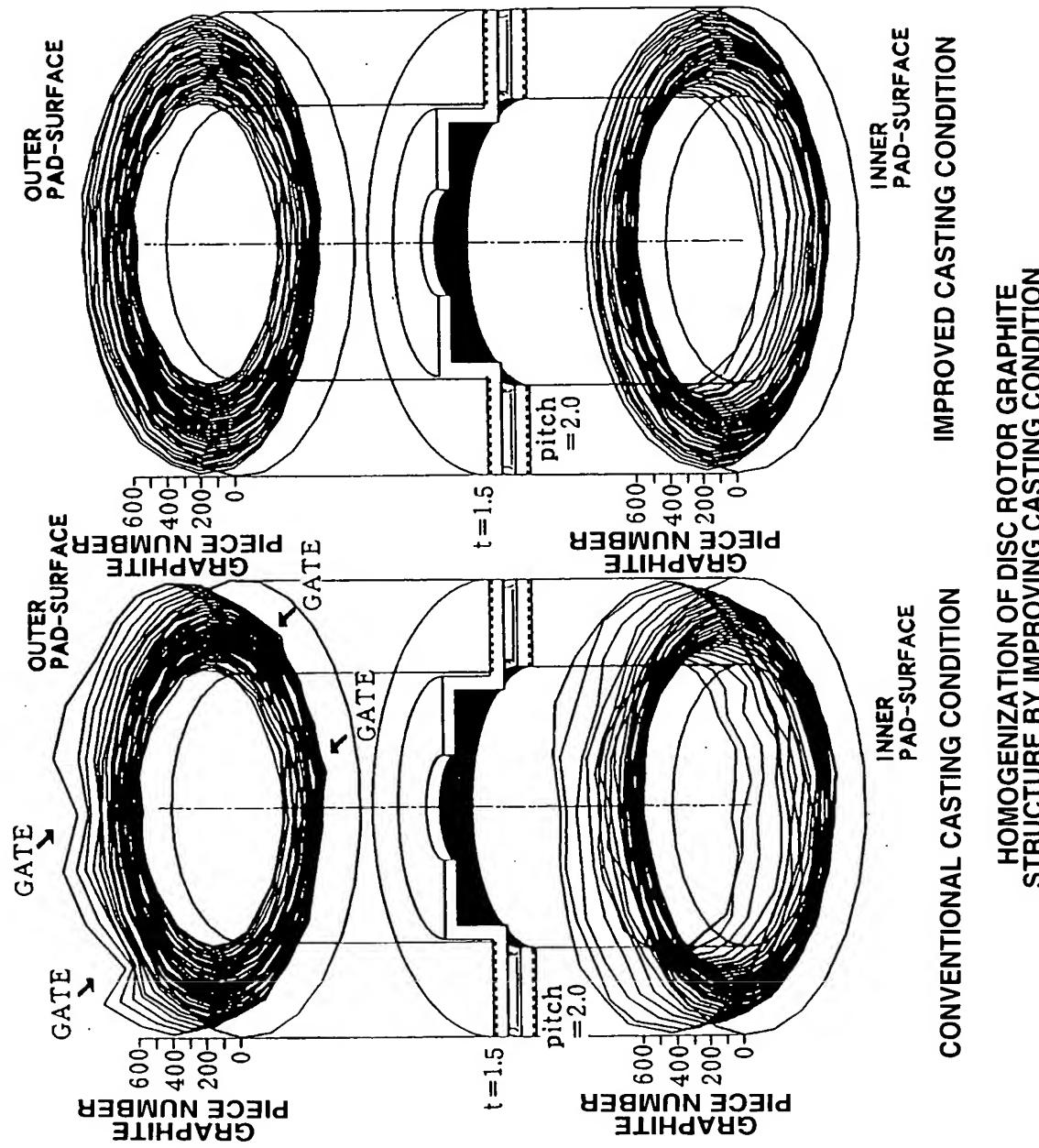
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FIG. 17



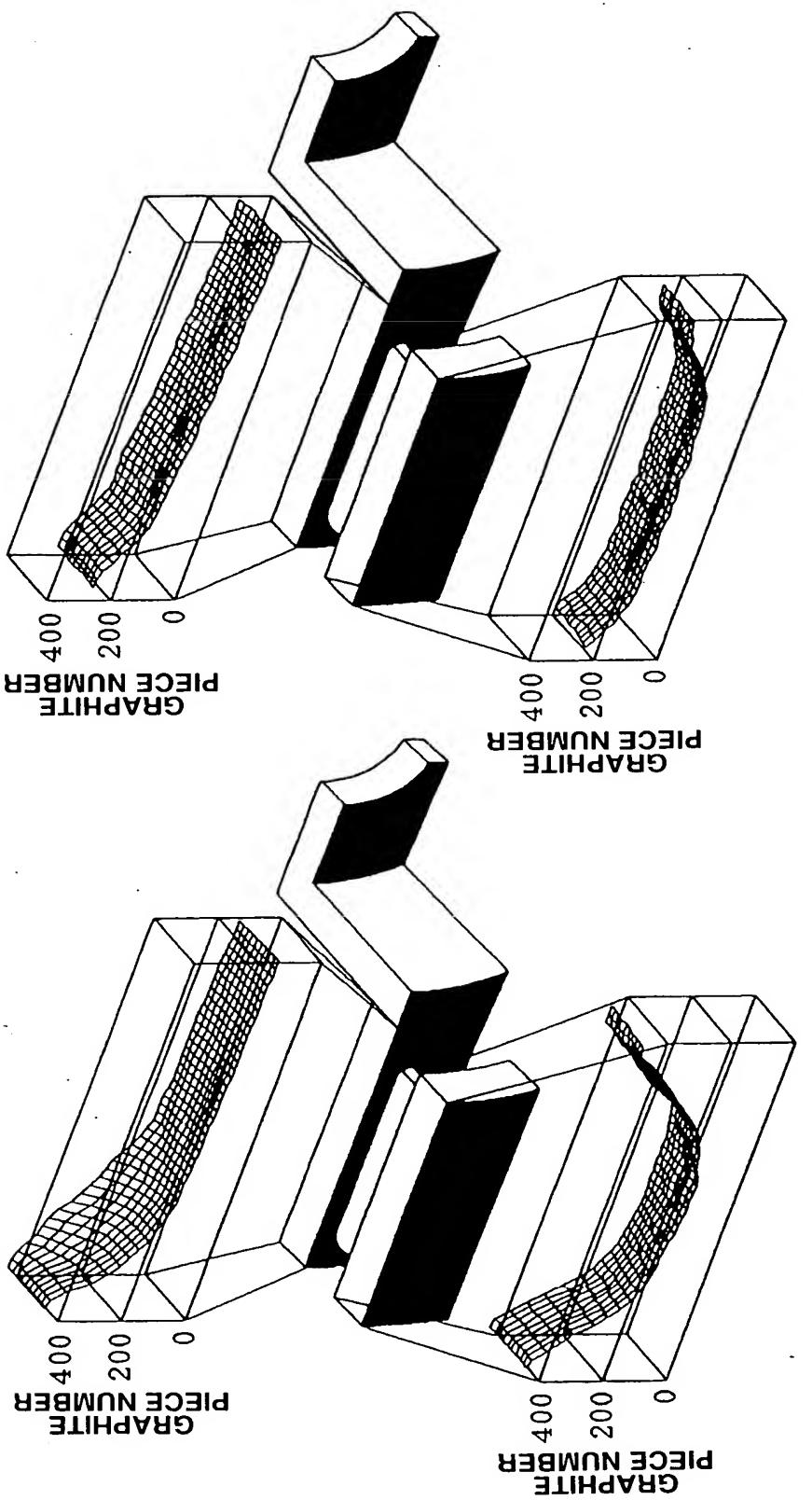
INDICATION OF THICK AND THIN DEGREE OF GRAPHITE PIECES
BASED ON THICKNESS OF CALCULATIONAL, ASSUMPTIVE,
REPRESENTATIVE GRAPHITE PIECE WITH LENGTH OF 100 μ m

FIG. 18



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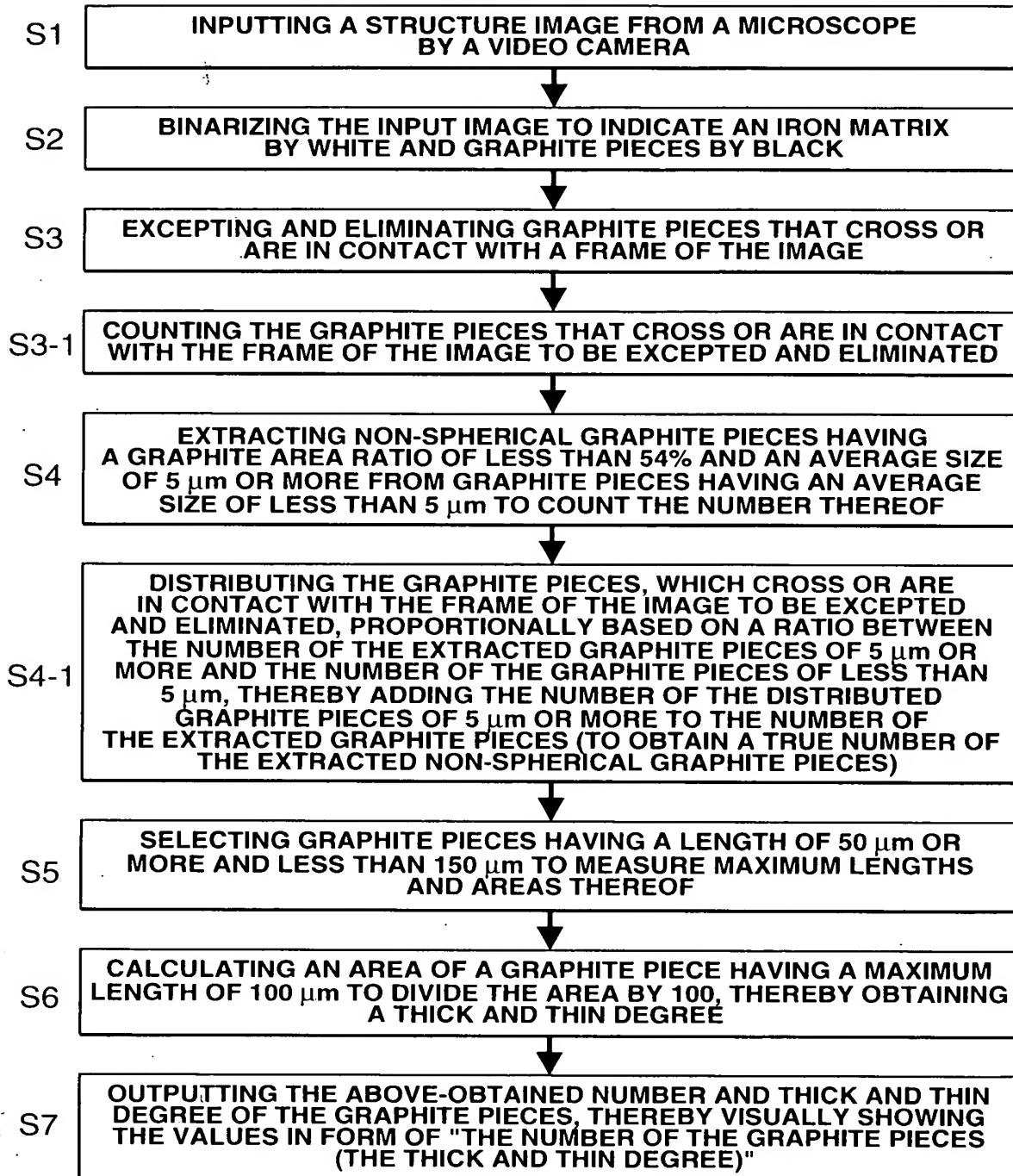
FIG. 19



IMPROVEMENT OF DISC ROTOR GRAPHITE STRUCTURE
BY RATIONALIZING MOLTEN METAL TREATMENT

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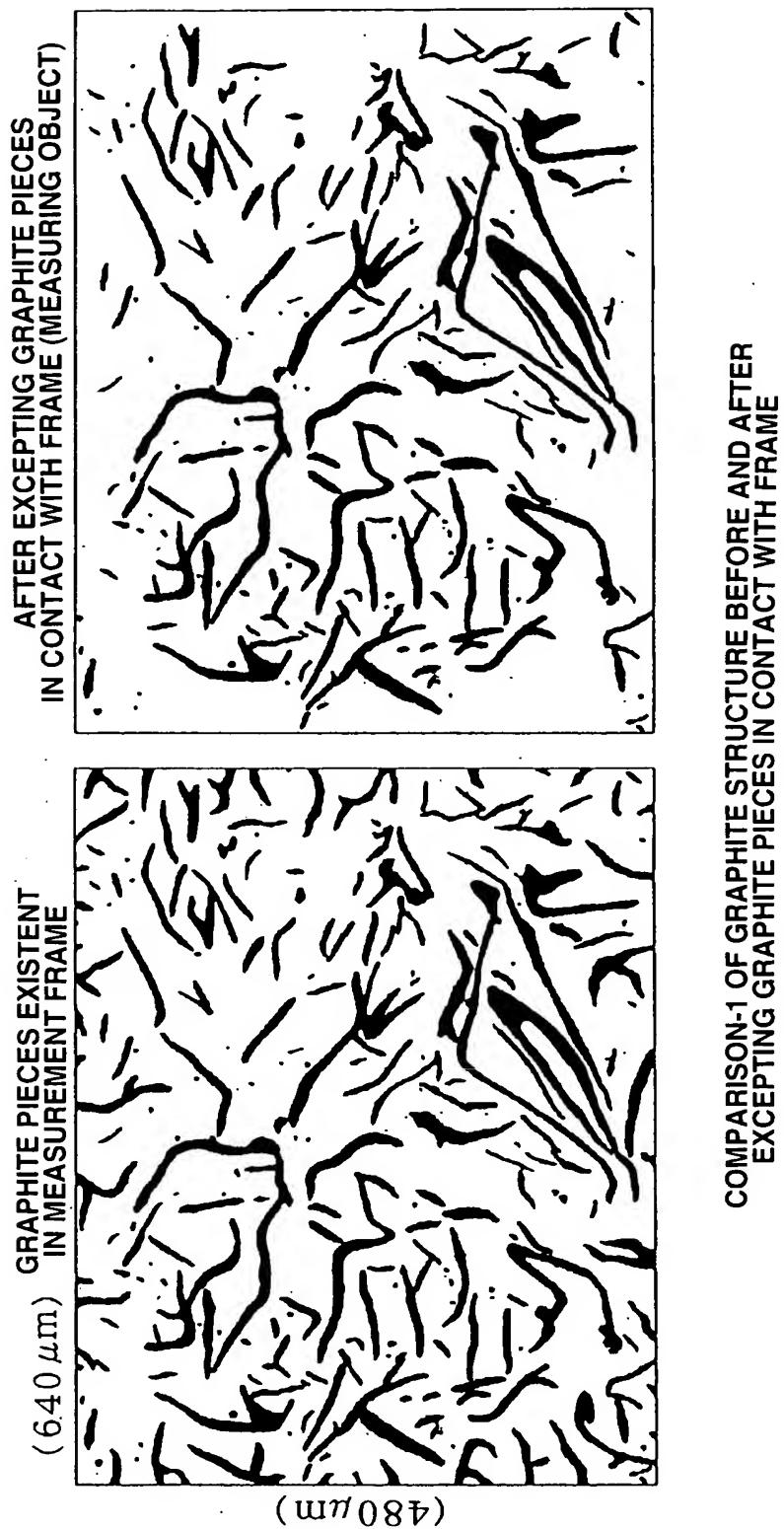
FIG. 20



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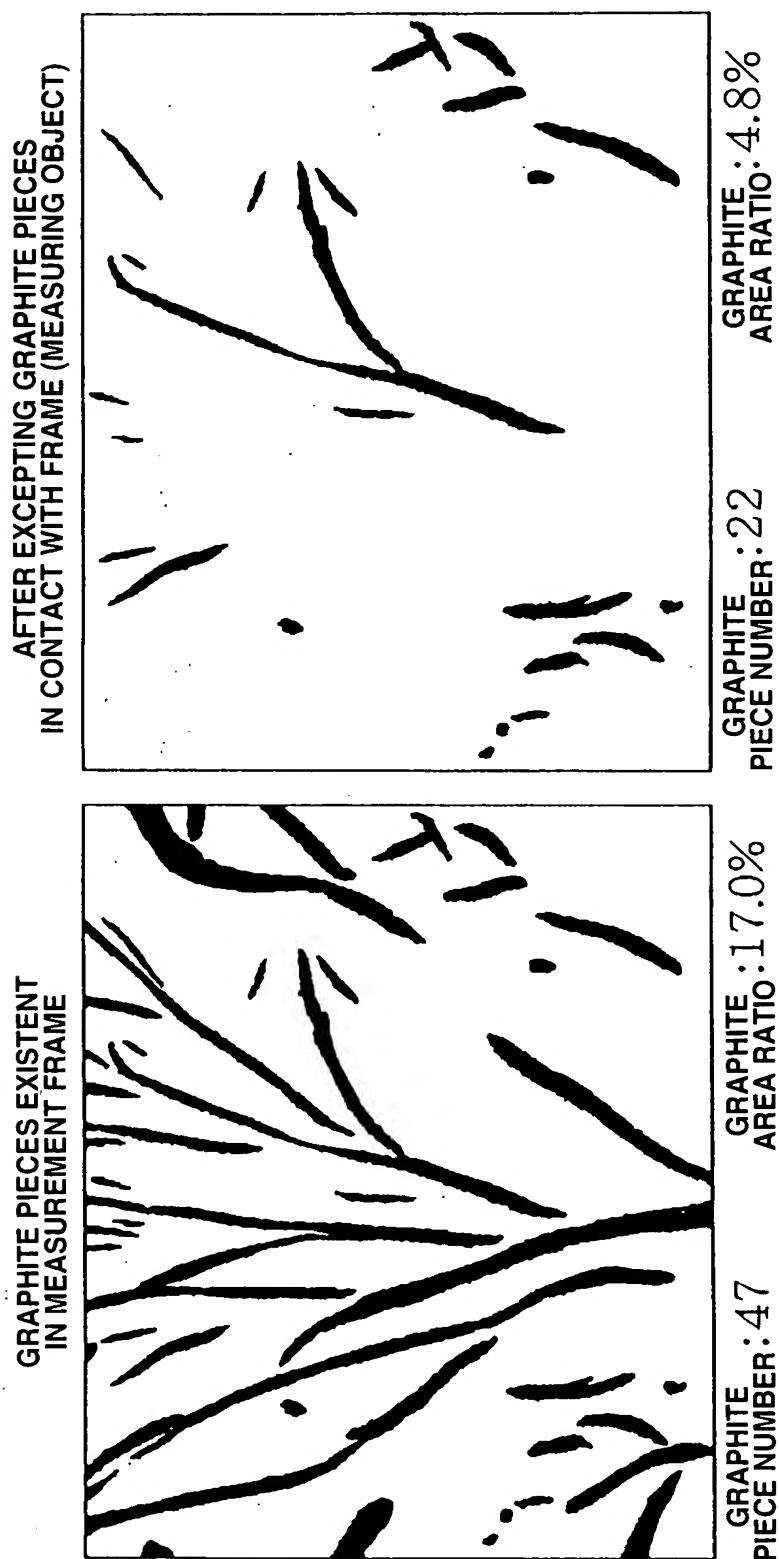
FIG. 21



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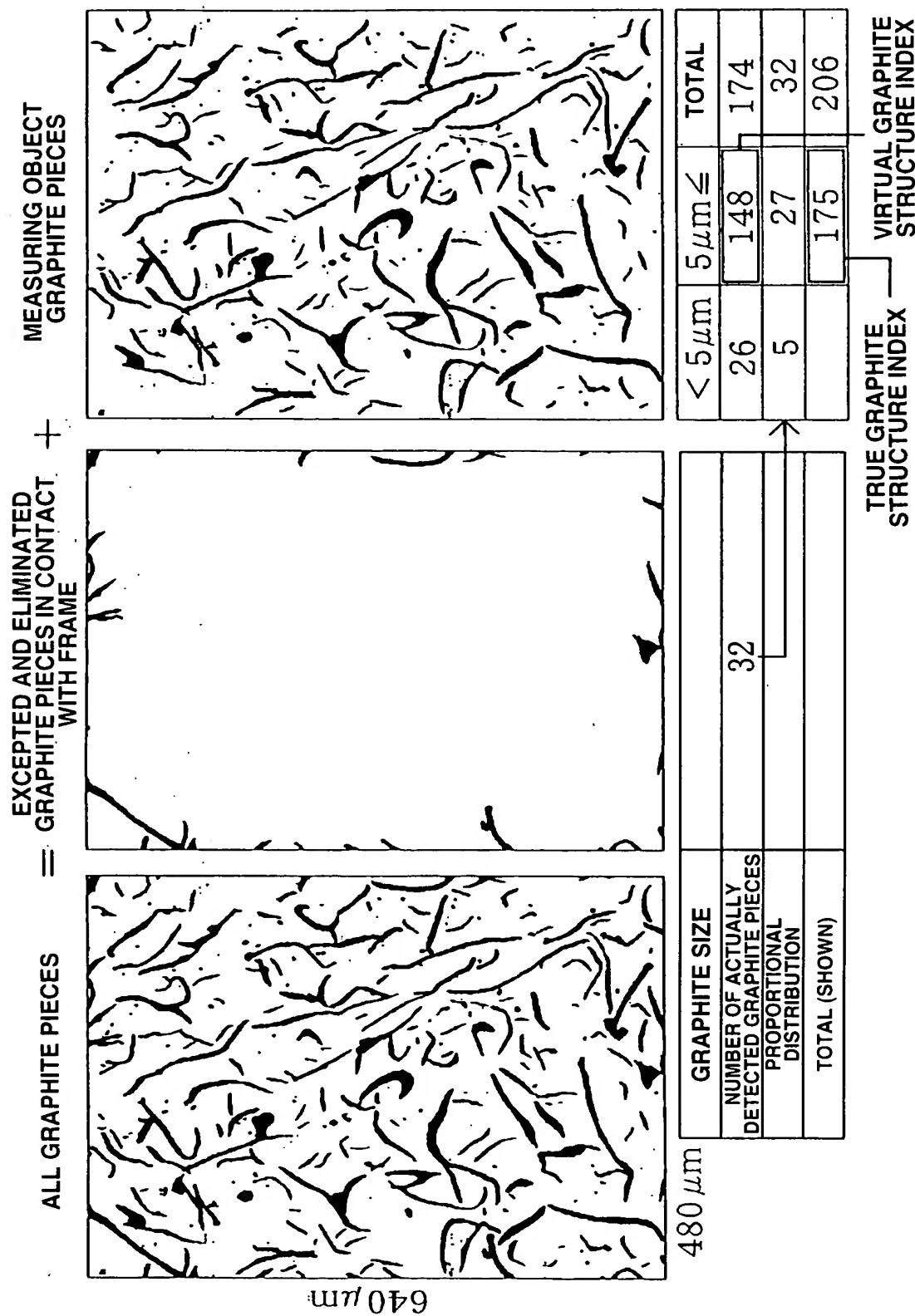
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FIG. 22



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FIG. 23



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FIG. 24

